

FIG.1

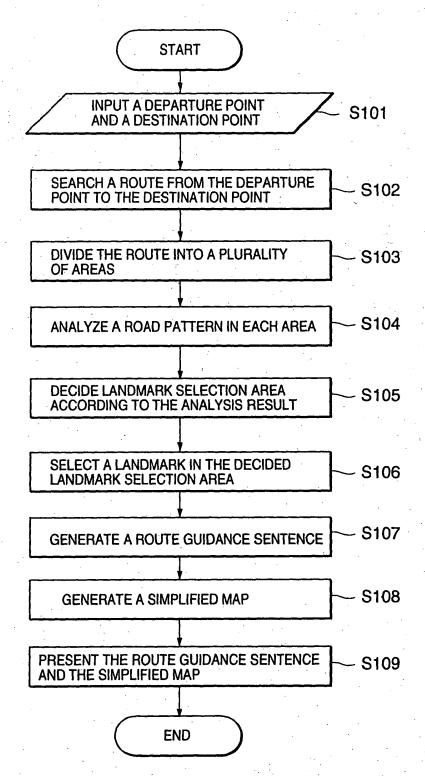


FIG.2

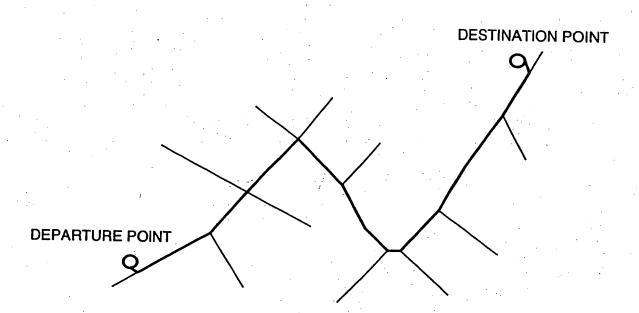


FIG.3

ID	NUMERICAL
POSITION	(X, Y)
NAME	CHARACTER SEQUENCE
THE NUMBER OF ARKS TO BE CONNECTED	NUMERICAL VALUE
ARRANGEMENT OF ARK ID TO BE CONNECTED	ARRANGEMENT OF NUMERICAL VALUE

## FIG.4A

ID	NUMERICAL VALUE
POSITION OF STARTING POINT	(X <sub>0</sub> , Y <sub>0</sub> )
POSITION OF END POINT	(X <sub>1</sub> , Y <sub>1</sub> )
NAME	CHARACTER SEQUENCE
ROAD WIDTH	NUMERICAL VALUE

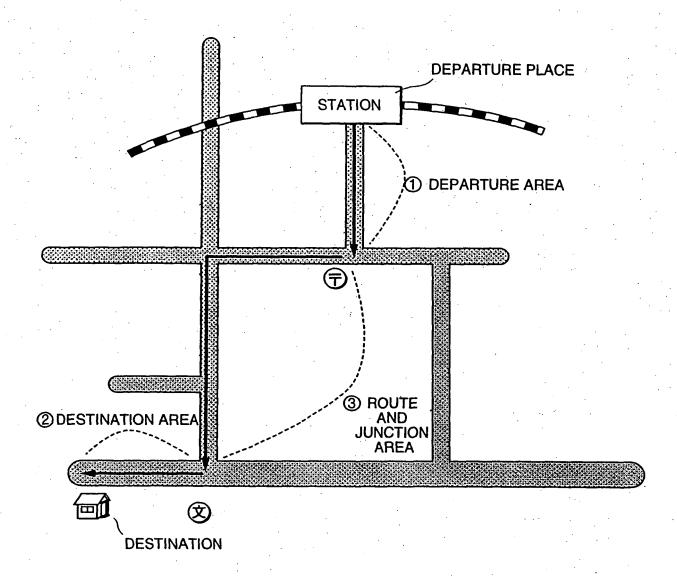


FIG.5

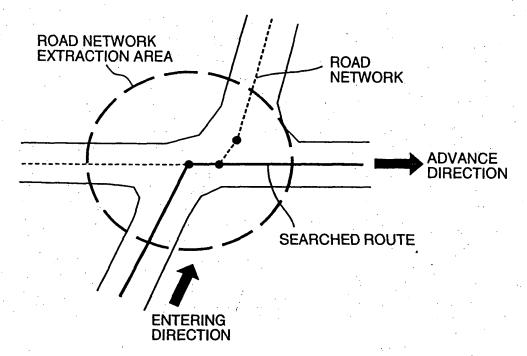


FIG.6A

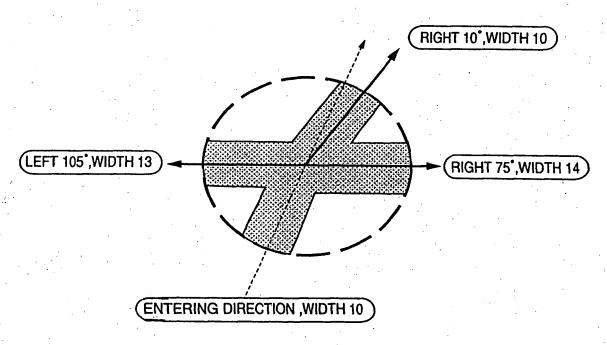


FIG.6B

## 6 RATIO OF ROAD WIDTH P=Wo/Wi

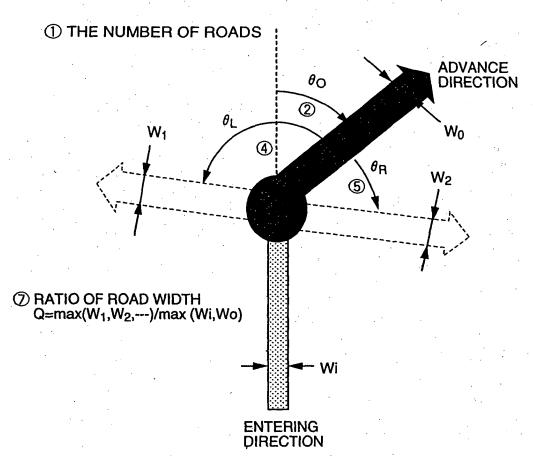
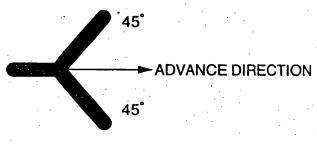


FIG.7

								,		
	ANGLE DIFFERENCE FOR ENTERING DIRECTION	92						250~290	250~290	340~360 0~20
ANGLE (* ) OF EACH ROAD		θ1				250~290	290~330	70~110	340~360 0~20	70~110
		0 θ	0~45	45~135	225~135	70~110	30~70	340~360 0~20	70~110	250~290
EXPRESSION OF ROUTE GUIDANCE		FOLLOW A ROAD	RIGHT -TURN	LEFT -TURN	T-CROSSING or THE END	Y-CROSSING	GO STRAIGHT, CROSS THE ROAD	TURN TO THE RIGHT AT THE JUNCTION	TURN TO THE LEFT AT THE JUNCTION	
ROAD		PATTERN		NON- JUNCTION		NOLLONO	(FORKED ROAD)	JUNCTION	(THREE FORKED) ROAD	
		NUMBER	2		ε 4					

 $\theta_0, \theta_1, \theta_2$  : ANGLE DIFFERENCE BETWEEN AN EXTENSION OF ENTERING ROAD AND EACH ROAD IN A CLOCKWISE DIRECTION

FIG.8

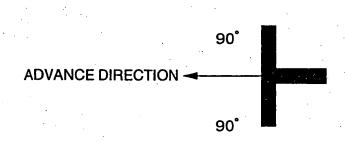


n=3

 $\theta L = \theta R = 45^{\circ}$ 

JUNCTION PATTERN: Y-CROSSING

FIG.9A

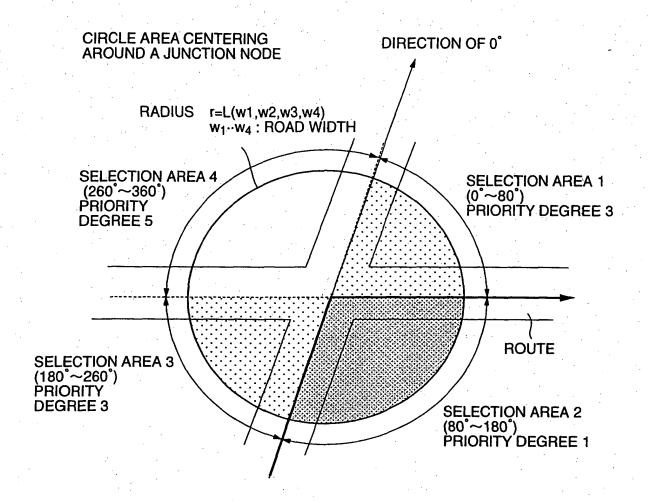


n=3

 $\theta L = \theta R = 90^{\circ}$ 

JUNCTION PATTERN: T-CROSSING

FIG.9B



ANALYSIS RESULT OF JUNCTION PATTERN BY ROAD PATTERN ANALYSIS UNIT  $C(n, \theta_0, \theta_L, \theta_R, P, Q) = \{4,80,80,260,100,140\}$ 

FIG.10

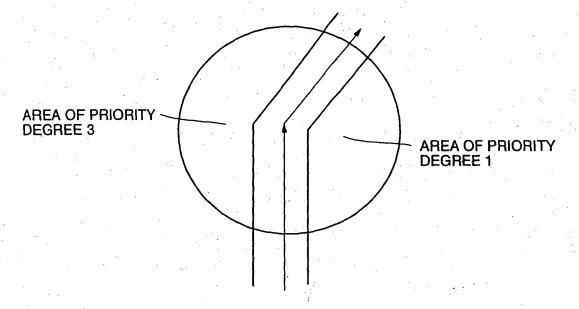


FIG.11A

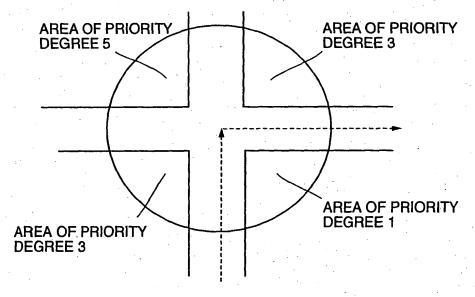


FIG.11B

<b>I</b> D	NUMERICAL VALUE
NAME	CHARACTER SEQUENCE
CLASS	NUMERICAL VALUE
PRIORITY DEGREE	NUMERICAL VALUE
POSITION	(X, Y)( LATITUDE, LONGITUDE)

FIG.12

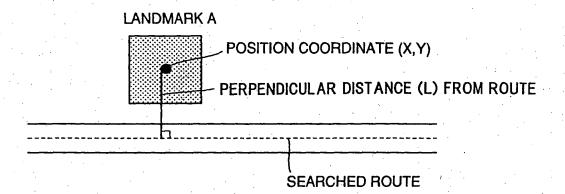


FIG.13A

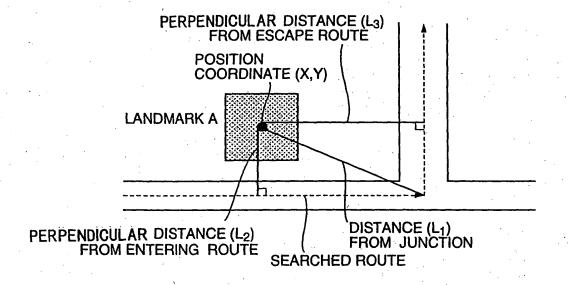


FIG.13B

- ▼ GO OUT KAWASAKI STATION, AND GO FORWARD TO YOKOHAMA BANK BY 50 METERS.
- ▼ GO FORWARD TO THE SOUTH ALONG THE STREET IN FRONT OF YOKOHAMA BANK BY 200 METERS.
- ▼ TURN TO THE LEFT AT <u>T-CROSSING</u>, GO FORWARD BY 20 METERS, AND GO FORWARD ALONG A CRANK BY FOLLOWING THE ROAD.
- ▼ TURN TO THE LEFT AT Y-CROSSING ...

## FIG.14A

- ▼ GO OUT KAWASAKI STATION, AND GO FORWARD TO YOKOHAMA BANK BY 50 METERS.
- ▼ GO FORWARD TO THE SOUTH ALONG THE STREET IN FRONT OF YOKOHAMA BANK BY 200 METERS.
- ▼ TURN TO THE LEFT AT A JUNCTION, GO FORWARD BY 20 METERS, TURN TO THE RIGHT, GO FORWARD BY 10 METERS, AND GO FORWARD TO THE LEFT BY 30 METERS.
- ▼ GO FORWARD TO THE LEFT AT A JUNCTION.